



# Getting Your Feet Wet...

an introduction to noaa oceans and coasts



# Getting Your Feet Wet...

NOS: Long Story Short	1
Organization	2
Budget and Personnel	3
Facilities	5
Geographic Distribution of NOS Personnel	6

## **PROGRAM OFFICES**

Office of Coast Survey	7
Office of National Geodetic Survey	9
Center for Operational Oceanographic Products and Services	11
Office of National Marine Sanctuaries	13
Office of Response and Restoration	15
NOAA Coastal Services Center	17
Office of Ocean and Coastal Resource Management	19
National Centers for Coastal Ocean Science	21

## **NOS STAFF OFFICES**

Management and Budget Office	23
Staff Office for International Programs	24

# NOS: Long Story Short

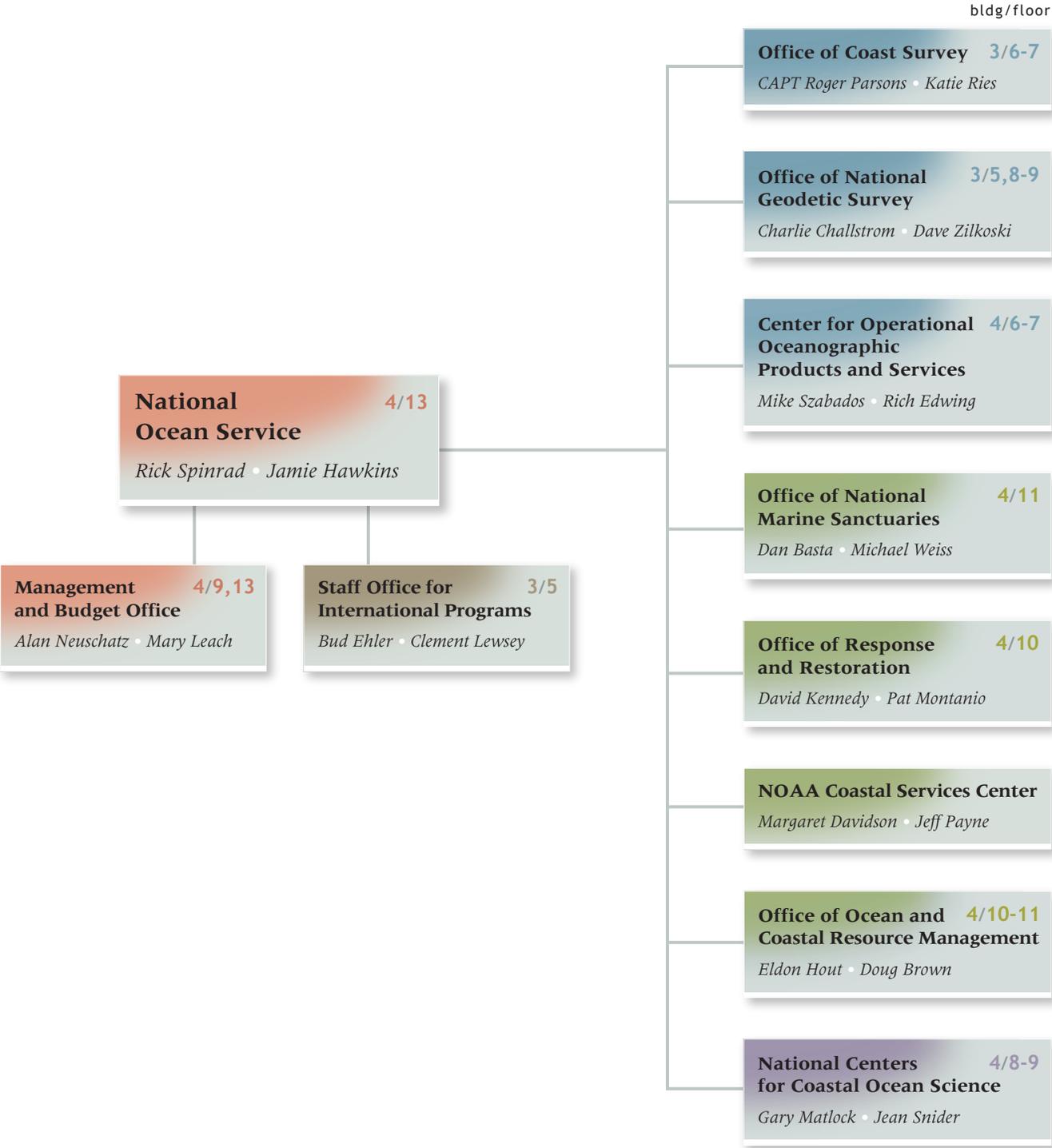
## NOAA'S

**NATIONAL OCEAN SERVICE (NOS)** is one of the nation's premier institutions in marine navigation, operational oceanography and geopositioning, marine resources management, and marine and coastal science. NOS provides many essential products, services and data for the nation. These include nautical charts, the National Spatial Reference System, and the National Water Level Observation Program. NOS manages major programs in 13 national marine sanctuaries and 26 national estuarine research reserves. Additionally, NOS is a major participant in immediate response to hazardous spill events, damage assessment, and restoration activities. NOS facilitates the nation's Coastal Zone Management Program, in which 34 coastal states participate, and it supports an aggressive training program for state coastal managers. Finally, NOS's science program assesses, monitors and predicts the consequences of natural and human-induced marine environmental perturbations.



NOS is organized into eight program offices and two staff offices. Each office contributes significantly to the mission of the agency. With an FY2003 enacted budget of \$415.4 million, NOS's 1,200 federal employees and over 500 contractors serve multiple functions within NOS to sustainably manage the nation's use of its coastal and marine resources. Many of these employees—about 60 percent—are located at NOS headquarters in Silver Spring, Maryland. The rest are stationed at various field offices around the nation.

# NOS Organization



# NOS FY03 FTE and Enacted ORF Budget and FY04 ORF Budget (President’s Request) by Program Office

	FY03 FTE Total HQ/Field	FY03 Enacted (\$M)	FY04 Request (\$M)
<b>Office of Coast Survey OCS</b>	<b>228</b> 185/43	<b>\$70.2</b>	<b>\$76.0</b>
<b>Office of National Geodetic Survey NGS</b>	<b>226</b> 163/63	<b>\$31.4</b>	<b>\$30.7</b>
<b>Center for Operational Oceanographic Products and Services CO-OPS</b>	<b>106</b> 72/34	<b>\$19.8</b>	<b>\$18.8</b>
<b>Office of National Marine Sanctuaries NMS</b>	<b>114</b> 50/64	<b>\$36.8</b>	<b>\$38.3</b>
<b>Office of Response and Restoration OR&amp;R</b>	<b>119</b> 26/93	<b>\$39.3</b>	<b>\$31.9</b>
<b>NOAA Coastal Services Center CSC</b>	<b>67</b> 2/65	<b>\$40.6</b>	<b>\$22.2</b>
<b>Office of Ocean and Coastal Resource Management OCRM</b>	<b>63</b> 58/5	<b>\$111.8</b>	<b>\$111.4</b>
<b>National Centers for Coastal Ocean Science NCCOS</b>	<b>175</b> 57/118	<b>\$61.2</b>	<b>\$57.3</b>
<b>Miscellaneous Appropriations</b>		<b>\$4.3</b>	<b>\$4.3</b>
<b>TOTAL</b>	<b>1098</b> 613/485	<b>\$415.4</b>	<b>\$391.0</b>

*abbreviation:* ORF - Operations, Research, and Facilities

*footnotes:*

- 1) FY03 Operating Budgets: AA - \$1.9M; M&B - \$12.6M; IPO - \$2.2M
- 2) AA/M&B/IPO FY03 FTE - 120 including reserves
- 3) FY03 Corporate Costs/Direct Bill - \$11.3M
- 4) FY03 budget includes Congressional earmarks not requested in FY04 budget.

# NOS FY03 Enacted PAC Budget and FY04 PAC Budget (President's Request) by Program Office

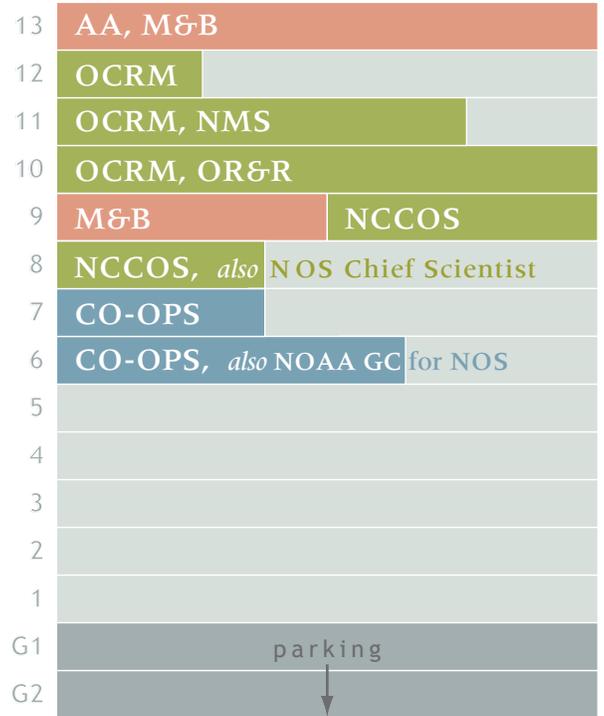
	FY03 Enacted (\$M)	FY04 Request (\$M)
<b>Office of National Marine Sanctuaries NMS</b>	\$9.9	\$10.0
<b>Office of Ocean and Coastal Resource Management OCRM</b>	\$65.9	\$10.0
<b>National Centers for Coastal Ocean Science NCCOS</b>	\$0.7	\$0.0
<b>TOTAL</b>	<b>\$76.5</b>	<b>\$20.0</b>

*abbreviation:* PAC - Procurement, Acquisitions, and Construction

# NOS Silver Spring Campus



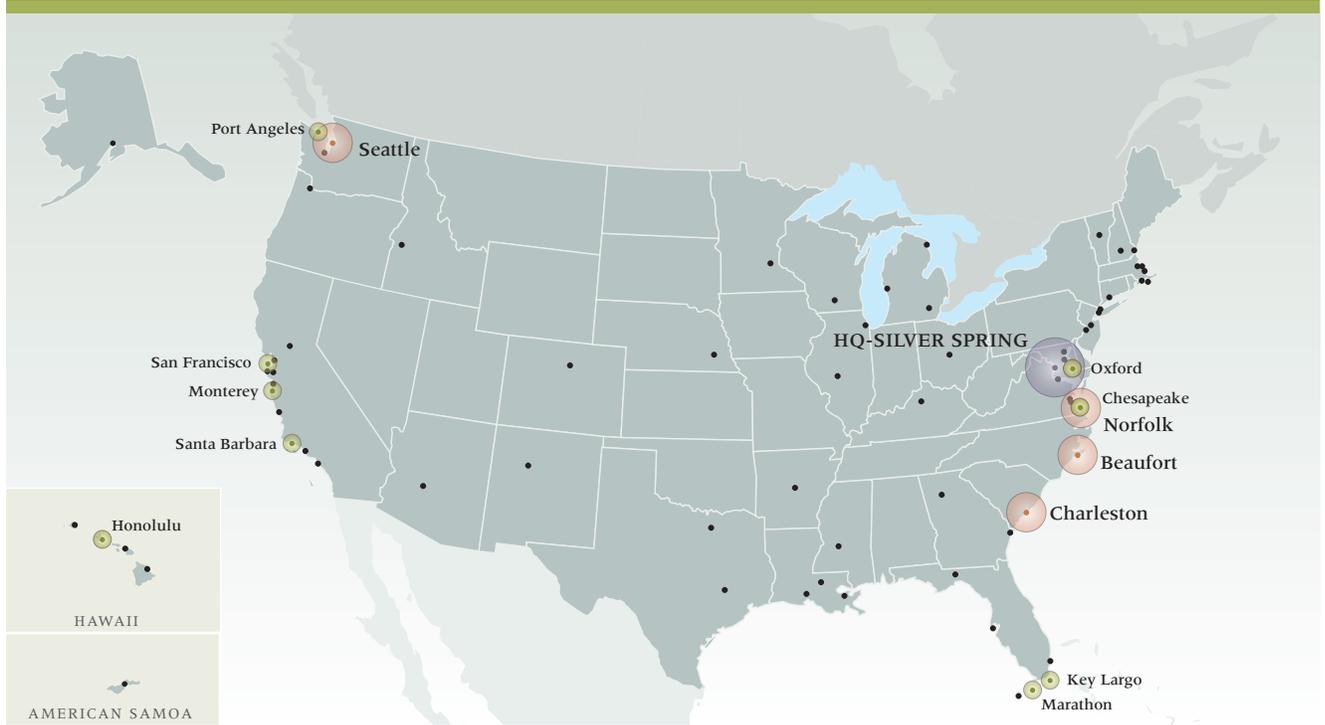
SSMC3 - 1315



SSMC4 - 1305

East-West Highway, Silver Spring MD 20910

# Geographic Distribution of NOS Personnel



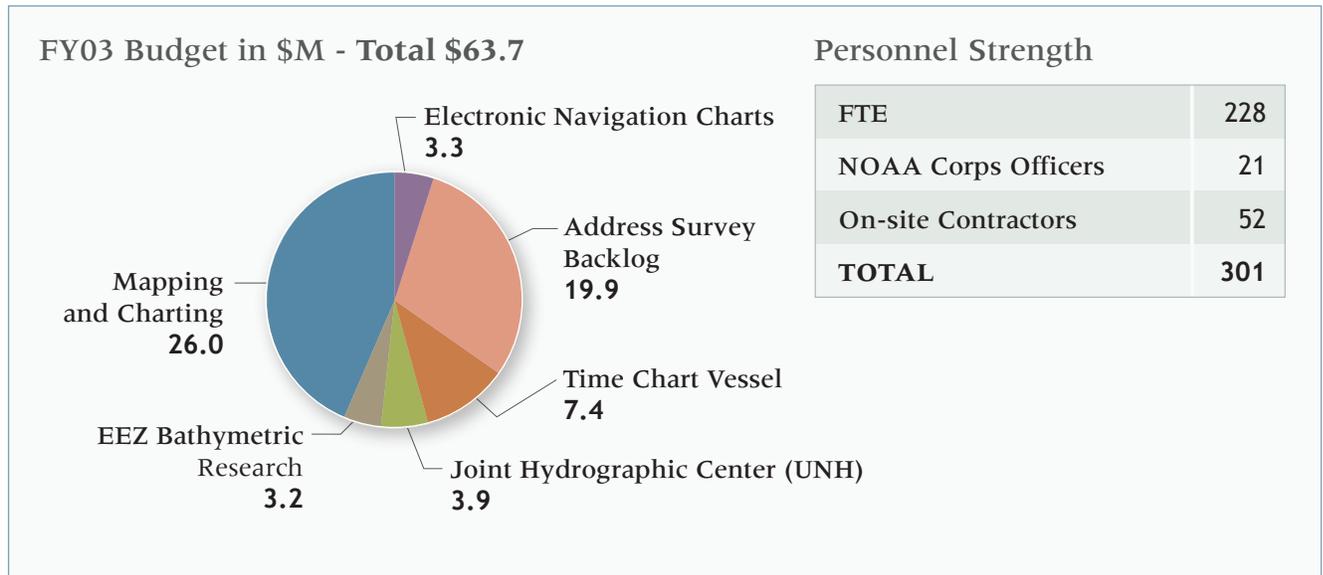
-  >114 Employees
-  26-113
-  5-25
-  1-4

# Office of Coast Survey

CAPT Roger Parsons, Director

Katie Ries, Deputy Director

## Budget and Total Personnel Strength



## Organization

### Coast Survey Development Laboratory

Bruce Parker, Chief

### Marine Chart Division

CAPT Jim Gardner, Chief

### Hydrographic Surveys Division

CAPT Sam DeBow/Mike Gibson, Chief

### Navigation Services Division

CDR Steve Barnum, Chief

## Program Highlights

- **OCS generates products and services** to meet the needs of customers with their direct input. Ten OCS navigation managers are stationed regionally throughout the nation to interact with customers, determine their needs and resolve their problems.
- **OCS maintains 1,000 nautical charts in paper, raster and Print-on-Demand formats**, and is in the process of building a comparable suite of electronic navigational charts (ENC). Available online, more than 500,000 ENC downloads have occurred since July, 2001.
- **OCS is employing and contracting experts, emerging technologies and new ships** to reduce the nation's hydrographic survey backlog by significant amounts.
- **OCS is working with NGS and CO-OPS** to implement the National Vertical Datum Transformation tool, which uses elevation data to create a consistent vertical datum accurately representing geographic and bathymetric data.
- **OCS's bathymetric survey data will be important** when the U.S. decides to submit a claim under the UN convention on the Law of the Sea for an extended continental shelf. NOAA will lead technical preparations for this claim when the U.S. accedes to the Convention.

# Office of Coast Survey

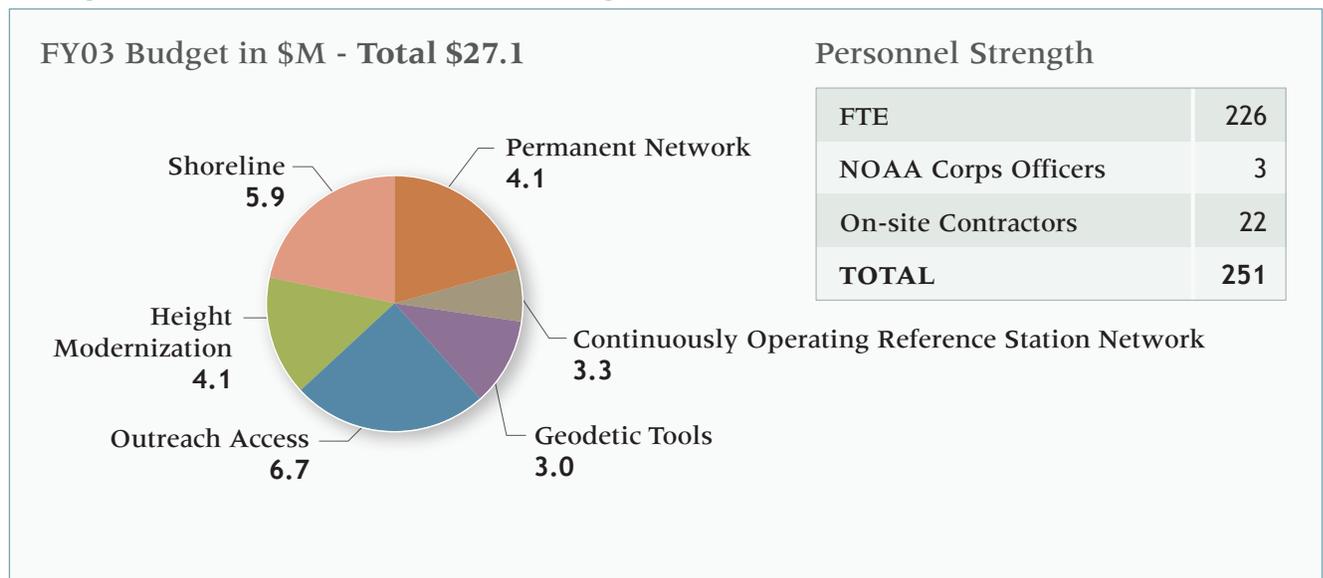


- Headquarters
- Hydrographic Branches
- Regional Navigation Managers

# Office of National Geodetic Survey

Charlie Challstrom, Director  
 Dave Zilkoski, Deputy Director

## Budget and Total Personnel Strength



## Organization

**Geodetic Services Division**  
 Gilbert Mitchell, Chief

**Spatial Reference System Division**  
 Richard Snay, Chief

**Remote Sensing Division**  
 CAPT Jon Bailey, Chief

**Observation and Analysis Division**  
 Libby Wade, Chief

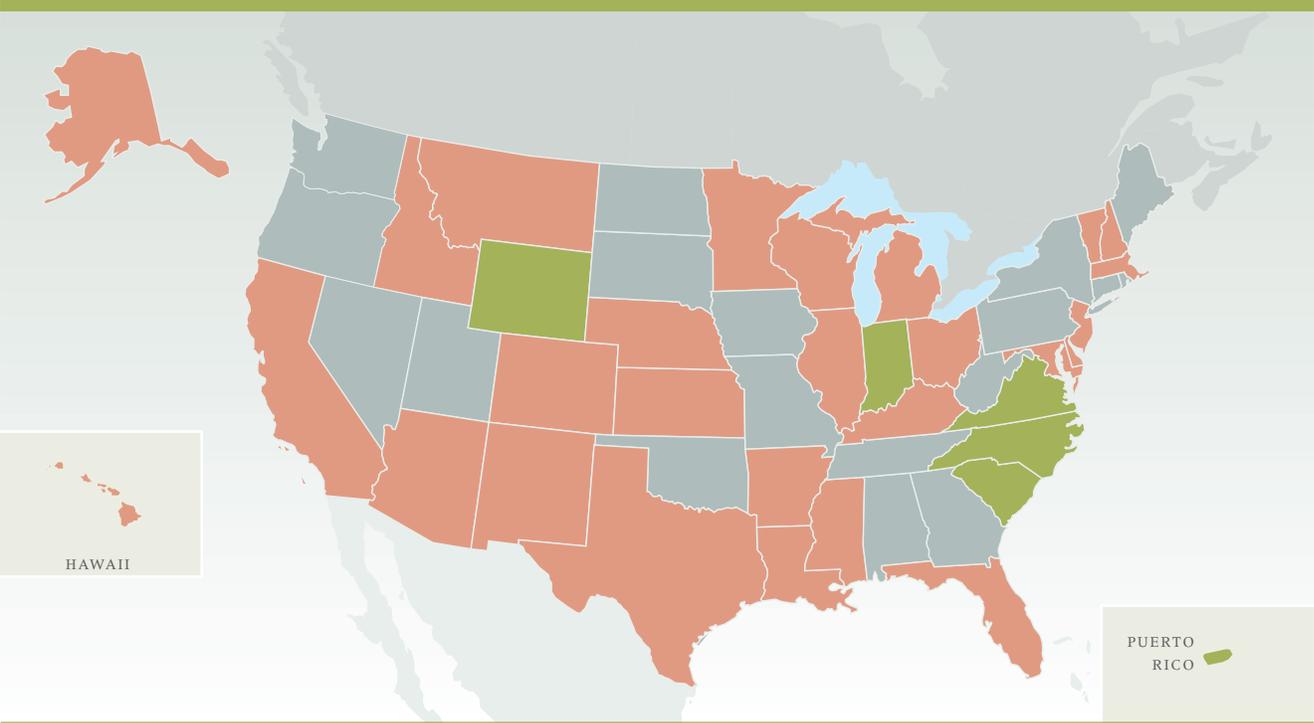
**Systems Development Division**  
 Charlie Schwarz, Chief

**Geosciences Research Division**  
 Gerry Mader, Chief

## Program Highlights

- **NGS's Height Modernization initiative** enables use of the Global Positioning System (GPS) to increase accuracy of the nation's fundamental permanent networks.
- **NGS participation in Geospatial One-Stop (GOS)** includes the development of data content standards and access to geodetic and shoreline data. GOS is an e-government initiative to make spatial data and metadata collected by federal agencies available to the public with on-line tools.
- **NGS's Online Positioning User Services (OPUS) and VDatum** expand public capabilities to use the latest positioning technologies.
- **NGS promotes partnerships** to improve the Continuously Operating Reference Station network, height modernization, and the setting of commemorative monuments for the Lewis and Clark Bicentennial and the Wright Brothers Centennial.
- **NGS contracts with the private sector** for shoreline mapping, height modernization, and airport survey data acquisition.
- **NGS state advisors, user forums, and town meetings** provide outreach, education, and connection to the American people.

# Office of National Geodetic Survey

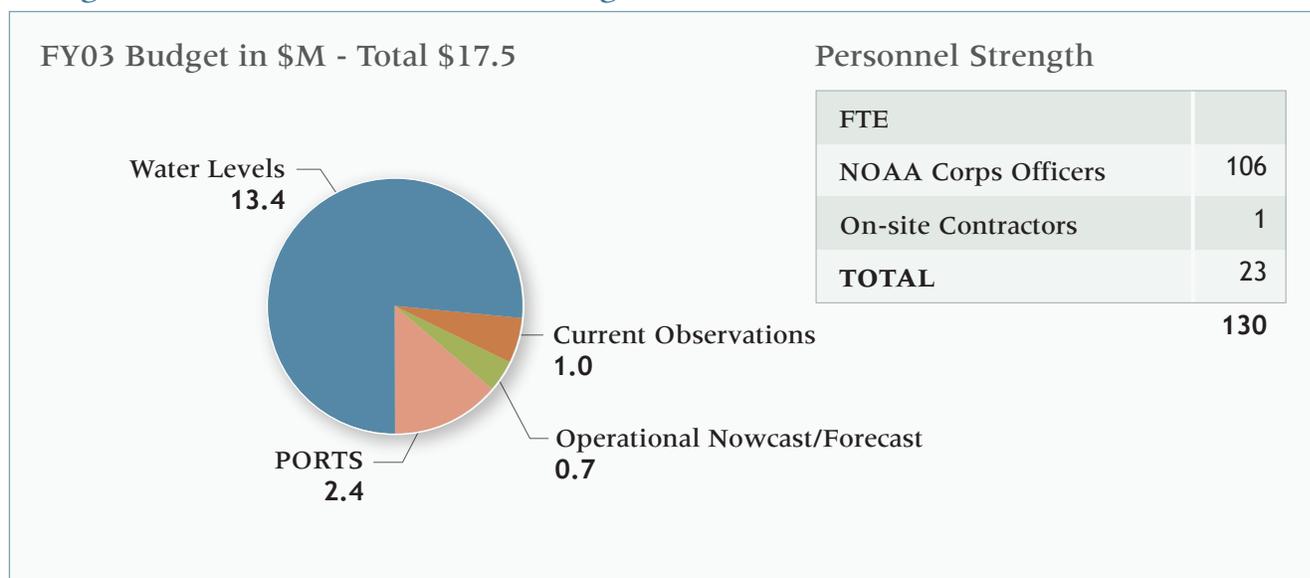


- State Advisors**
- *Advisor*
  - *State Representative*

# Center for Operational Oceanographic Products and Services

Mike Szabados, Director  
 Rich Edwing, Deputy Director

## Budget and Total Personnel Strength



## Organization

### Requirements and Development Division

Thomas Mero, Chief

### Field Operations Division

Michael O'Hargan, Chief

### Products and Services Division

William Stoney, Chief

### Information Systems Division

Thomas Bethem, Chief

## Program Highlights

- **Physical Oceanographic Real-Time Systems (PORTS) are now operating** at 10 locations and support safe and efficient navigation at 37 U.S. seaports.
- **CO-OPS, in partnership with the international Great Lakes community,** makes available real-time water level and other sensor information via the Great Lakes Online Web site.
- **CO-OPS recently launched Sea Levels Online,** a Web site that provides information on the long-term trends and variations of relative mean sea level at 117 coastal water level stations.
- **In 2003, CO-OPS updated the 25-year National Tidal Datum Epoch** from the 1960-1978 epoch to the new 1983-2001 epoch.
- **In 2003, the Port of New York and New Jersey Operational Forecast System (NYOFS) became operational,** providing mariners in the area with forecasts and nowcasts of water levels and currents.
- **In 2003, CO-OPS established the St. Charles parish Water Level Monitoring System** to supplement existing water level stations in hurricane-prone Louisiana.

# Center for Operational Oceanographic Products and Services



## National Water Level Observation Network Stations - NWLON

- *Tide Component*
- *Great Lakes Component*

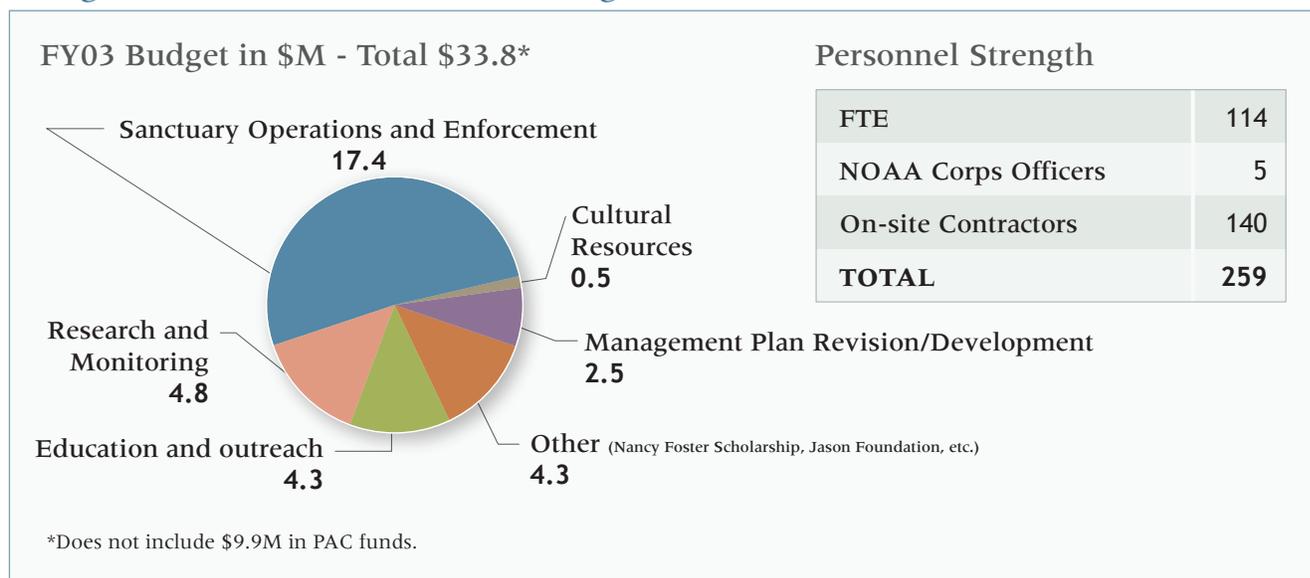
- ▲ **Physical Oceanographic Real-time System - PORTS®**
- ▲ **PORTS® under development**

# Office of National Marine Sanctuaries

Daniel J. Basta, Director

Michael Weiss, Deputy Director; CAPT Ted Lillestolen, Deputy Director

## Budget and Total Personnel Strength



## Organization

### National Programs Branch

Charly Alexander, Chief

### Conservation, Policy and Planning Branch

Helen Golde, Chief

### Stewardship Development Branch

Matt Stout, Chief

### Operations Branch

Maureen Warren, Chief

## Program Highlights

- **Seven sanctuaries currently are revising their management plans**, which provide community-based strategies for addressing resource protection issues.
- **NMS is in the process of designating a new sanctuary** in the ecologically rich and diverse Northwestern Hawaiian Islands.
- **NMS is increasing its focus** on conservation of cultural resources—the turret of the *USS Monitor* was raised in summer 2002 and more shipwrecks within Thunder Bay were identified.
- **NMS is considering establishing marine reserves** in California’s Channel Islands to complement the state’s recent marine reserves designation in the area.
- **NMS is working to implement a system-wide monitoring plan** that would allow the sanctuaries to become key areas for monitoring the health of the oceans.
- **Sanctuary Advisory Councils have been established** at 11 sites, involving more than 200 community members in providing management advice to NOAA.
- **NMS is improving its interpretive techniques** for communicating its message to the public and using “telepresence,” an innovative technology, to share the underwater experience with others.
- **The Dry Tortugas Reserve was designated** as a part of the Florida Keys National Marine Sanctuary, increasing the amount of area under sanctuary protection by 90 square nautical miles.
- **NMS is evolving a cross-site program integration process** in science, education, marine archaeology, and management plan development.

# Office of National Marine Sanctuaries

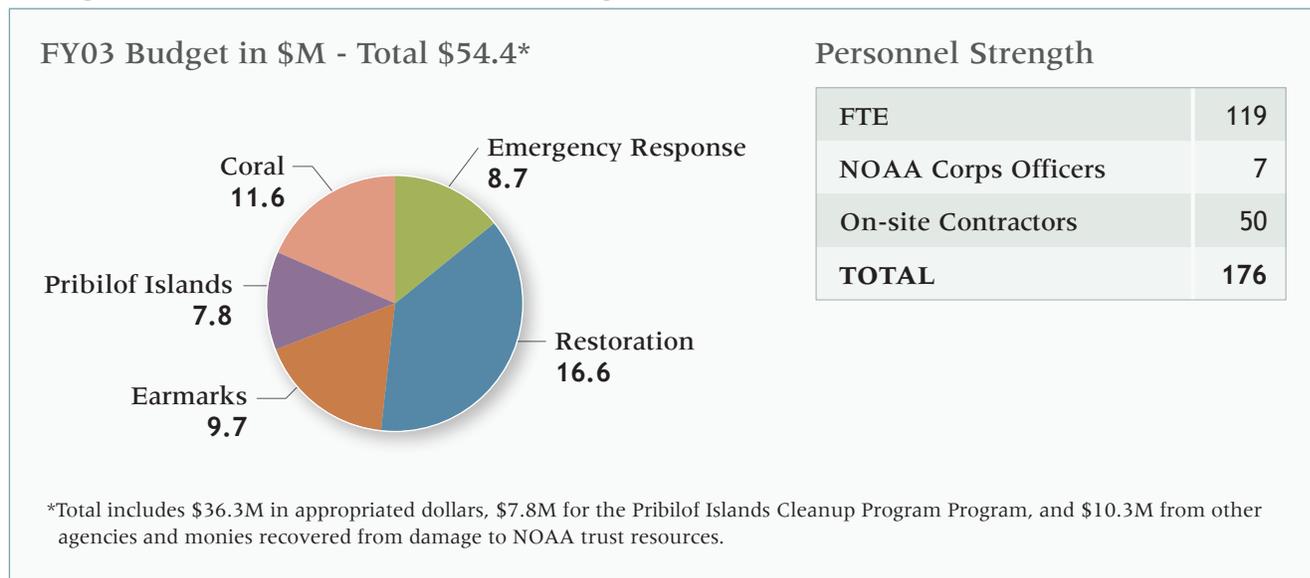


- National Marine Sanctuaries, *designated*
- *proposed*

# Office of Response and Restoration

David Kennedy, Director  
Pat Montanio, Deputy Director

## Budget and Total Personnel Strength



## Organization

**Hazardous Materials Response Division**  
Bob Pavia, Chief

**Coastal Protection and Restoration Division**  
Alyce Fritz, Chief

**Damage Assessment Center**  
Bill Conner, Chief

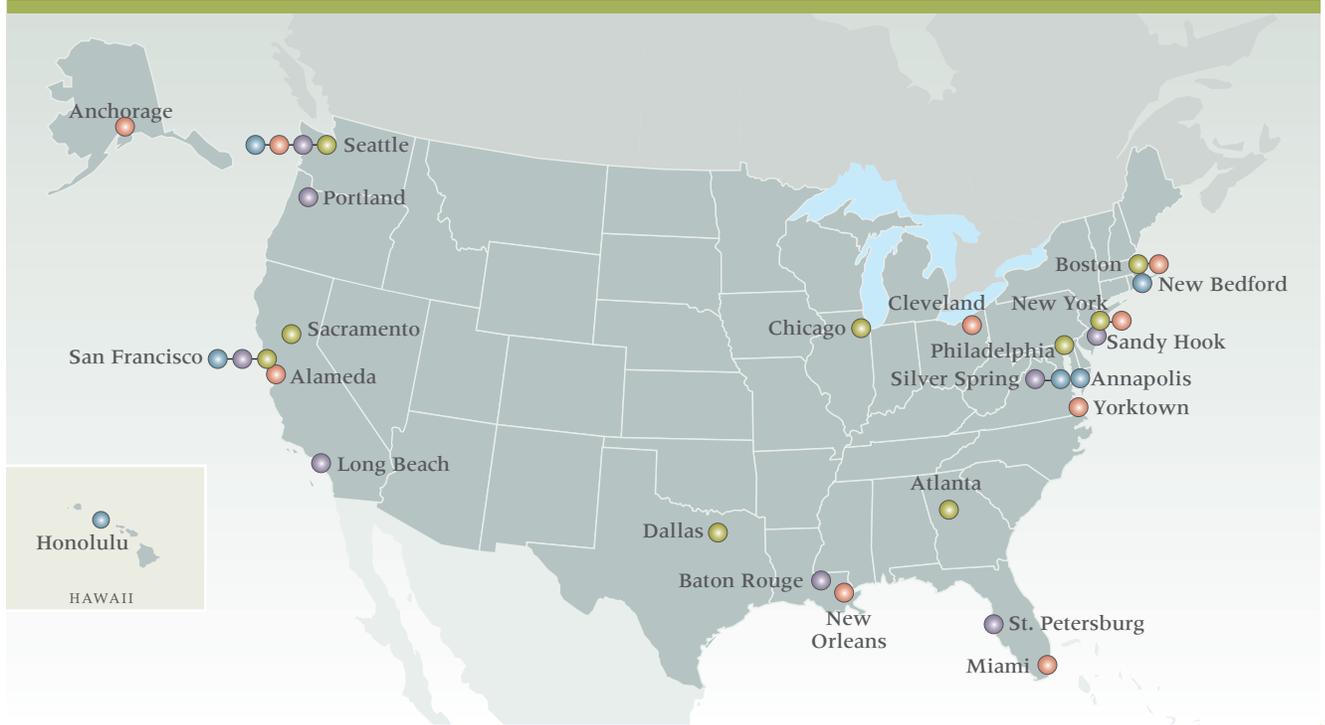
**Coral Reef Conservation Program**  
Roger Griffis, Coordinator

**Pribilof Restoration Program**  
John Lindsay, Manager

## Program Highlights

- **OR&R responds to more than 100 coastal oil** and hazardous materials emergencies each year.
- **OR&R provides cleanup and restoration** solutions at 225 waste sites each year.
- **OR&R has collected over \$300 million from polluters** since 1990 to restore coastal resources injured by oil or hazardous materials.
- **OR&R conducts more than 30 training sessions** and workshops each year, and produces more than 25 readily available tools and technical guidance products.
- **OR&R leads NOAA's multi-million dollar efforts** under the Coral Reef Conservation Act, the U.S. National Action Plan to Conserve Coral Reefs, and the U.S. Coral Reef Task Force.
- **OR&R has cleaned up 50%** of the NOAA-owned sites on the Pribilof Islands.

# Office of Response and Restoration



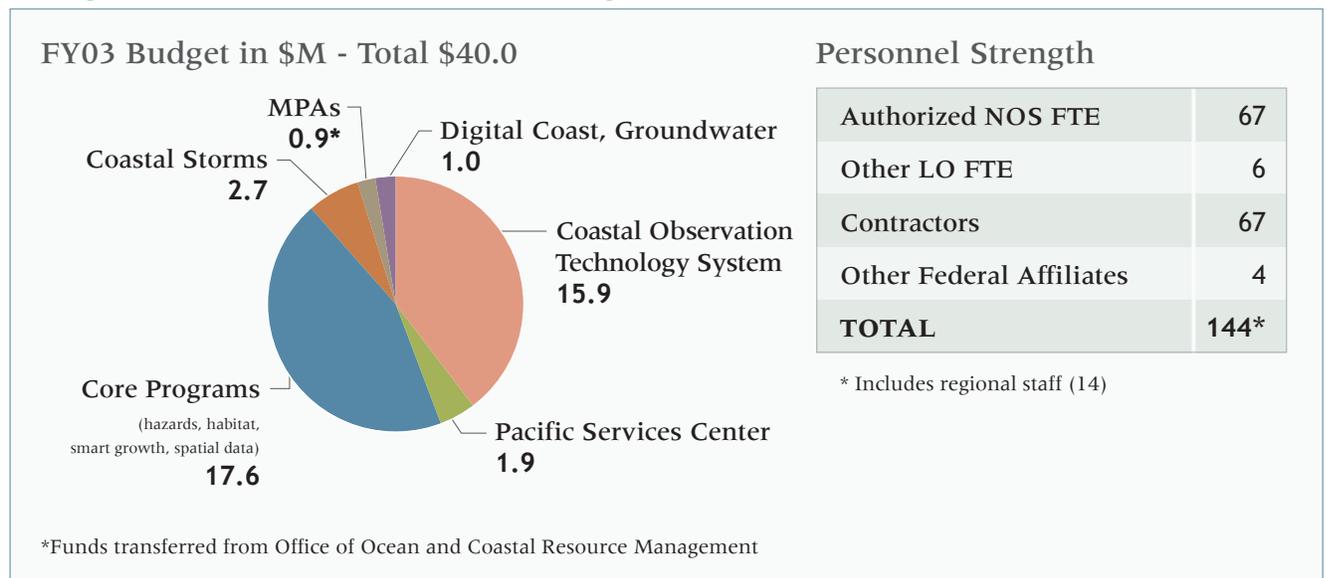
- Coastal Protection and Restoration Division
- Damage Assessment Center
- Hazardous Materials Response Division
- OR&R Headquarters Staff

# NOAA Coastal Services Center

Margaret Davidson, Director

Jeff Payne, Deputy Director

## Budget and Total Personnel Strength



## Organization

### Coastal Management Service Branch

Paul Scholz, Chief

### Resource Management Services Branch

Beth McCandless, Chief

### Coastal Information Services branch

Anne Hale Miglarese, Chief

Nicholas Schmidt, Program Manager

## Program Highlights

**CSC helps coastal managers** resolve specific natural resource issues by linking people, information, and technology.

- **CSC identifies needs of the coastal management community** in the areas of habitat, hazards, smart coastal growth, ocean observing systems, and coastal national spatial data infrastructure through customer surveys.
- **CSC produces over 100 products** per year to support state coastal programs.
- **CSC emphasizes training, geospatial data and information development, applications of remote sensing, and geographic information systems.**
- **CSC standardizes and expands the use of ocean data** through the Coastal Observation Technology System (COTS).
- **CSC organizes Coastal Zone '03 and GeoTools conferences**, two of the largest and most successful conferences for state coastal programs.

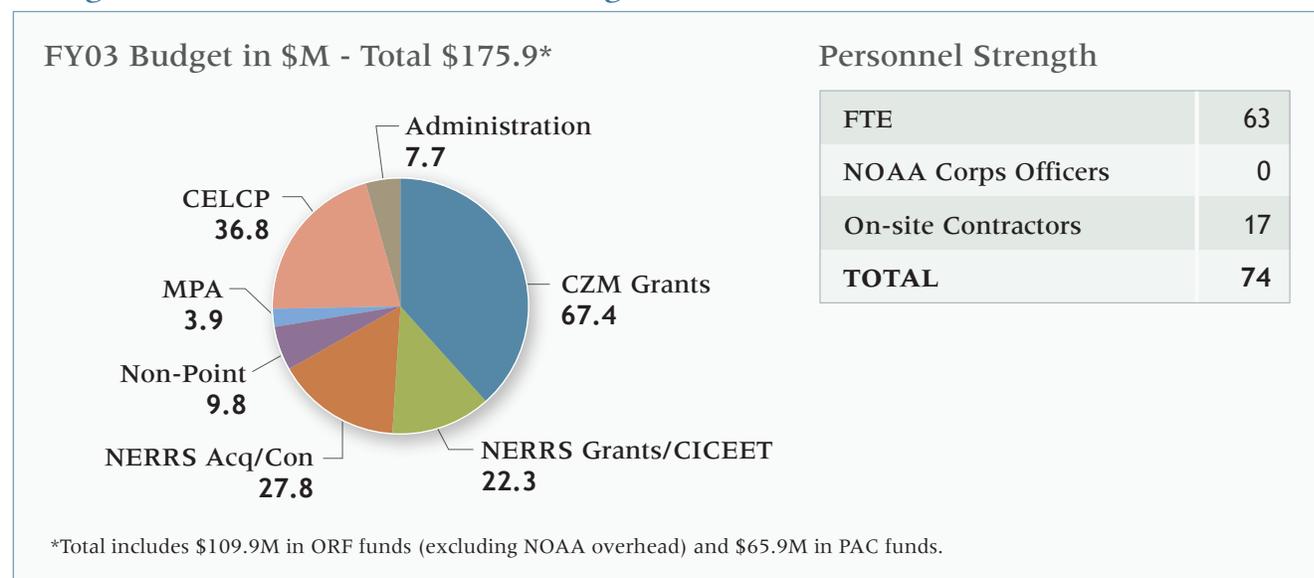
# NOAA Coastal Services Center



# Office of Ocean and Coastal Resource Management

Eldon Hout, Director  
Doug Brown, Deputy Director

## Budget and Total Personnel Strength



## Organization

### Coastal Programs Division

John King, Chief, *acting*

### Estuarine Reserves Division

Laurie McGilvray, Chief

### National Policy and Evaluation Division

Ralph Cantral, Chief

### Business Management Division

Barbara MacNeill, Chief

### Marine Protected Areas Center

Joe Uravitch, Center Director

## Program Highlights

- **OCRM manages the nation's Coastal Zone Management Program** with participation from 34 states.
- **OCRM manages the National Estuarine Research Reserve System** of 25 special areas set aside for conservation, research, and education.
- **OCRM and the Heinz Center recently completed the report** titled *Developing a Framework for Identifying Performance Indicators for the Coastal Zone Management Act*.
- **The National MPA Center, now fully staffed, was officially established** as part of OCRM in FY2003. The Center coordinates all NOAA MPA activities.
- **American Samoa and North Carolina non-point programs** were recently approved.
- **OCRM implemented a new Coastal Training Program** at the Waquoit Bay Reserve, which will provide new approaches to helping communities manage their coastal resources.

# Office of Ocean and Coastal Resource Management

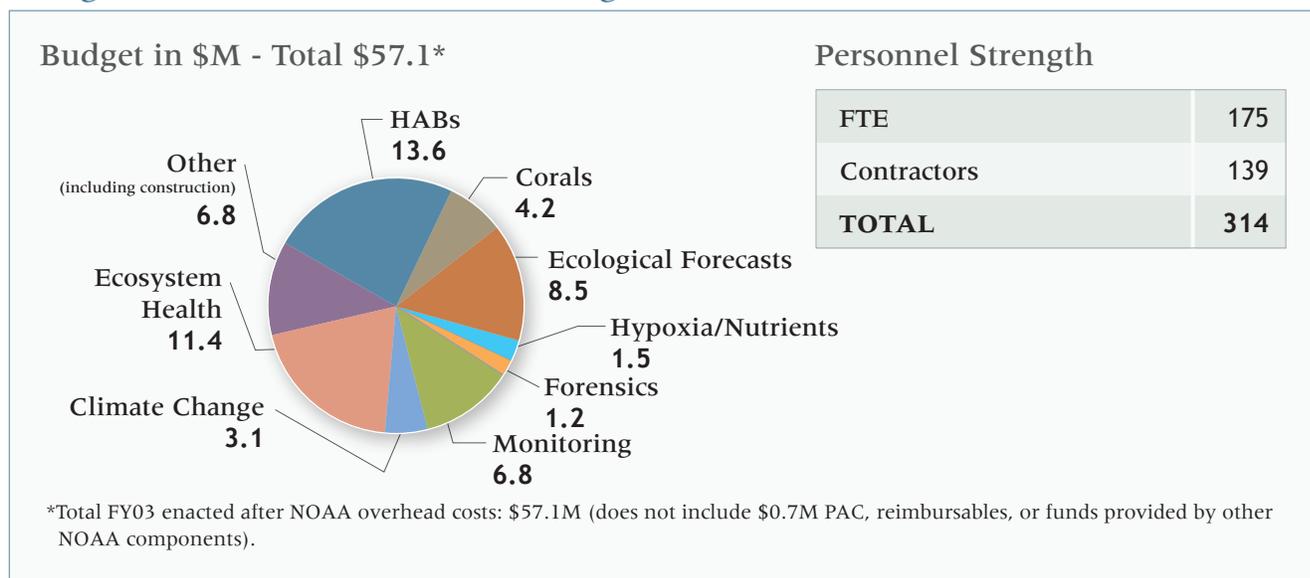


- Coastal Zone Management Program, *federally approved*
- not participating in CZMP*
- Estuarine Research Reserves, *designated*
- proposed*

# National Centers for Coastal Ocean Science

Gary Matlock, Director  
Jean Snider, Deputy Director

## Budget and Total Personnel Strength



## Organization

### Center for Coastal Monitoring Assessment

Russell Callendar, Director

### Center for Sponsored Coastal Ocean Research

Darrell McElhane, Director, *acting*

### Center for Coastal Fisheries and Habitat Research

David Johnson, Director

### Center for Coastal Environmental Health and Biomolecular Research

Geoffrey Scott, Director, *acting*

### Hollings Marine Laboratory

Fred Holland, Director

## Program Highlights

**NCCOS currently conducts or supports more than 250 research projects** that provide scientific information and tools to help coastal managers make better decisions. These include:

- **Development** of ecological forecasts;
- **Determinations** of the environmental health of U.S. coastal ecosystems;
- **Prediction, assessment, and understanding** of harmful algal blooms;
- **Assessment and characterization** of coral reefs throughout the U.S. and its territories;
- **Assessments and predictions** of hypoxia and nutrient over-enrichment in estuaries; and
- **Determinations** of the potential effects of climate change on marine resources.

# National Centers for Coastal Ocean Science



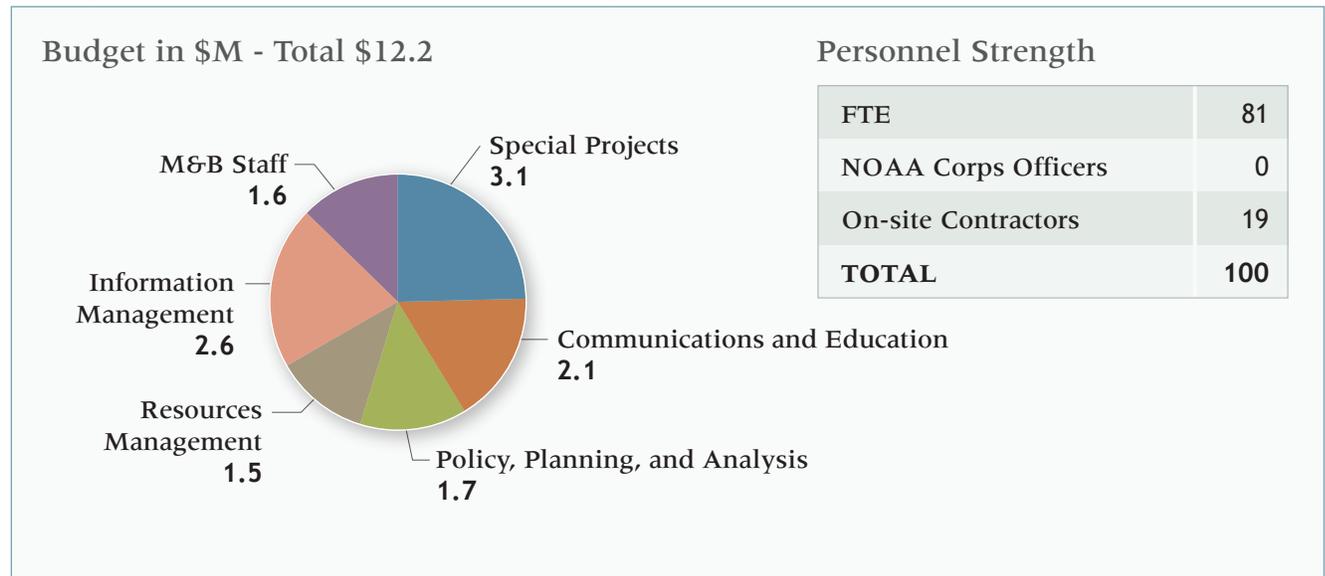
- Science Centers
- Marine Laboratories

# Management and Budget Office

Alan Neuschatz, Associate Assistant Administrator for Budget

Mary Leach, Deputy Director

## Budget and Total Personnel Strength



## Organization

### Resources Management Division

Peter Gibson, Chief

### Information Management Division

Hugh Johnson, Chief and NOS CIO

### Policy, Planning, and Analysis Division

Mitch Luxenberg, Chief

### Communications and Education Division

Tom Cox, Chief

### Special Projects

Dan Farrow, Chief

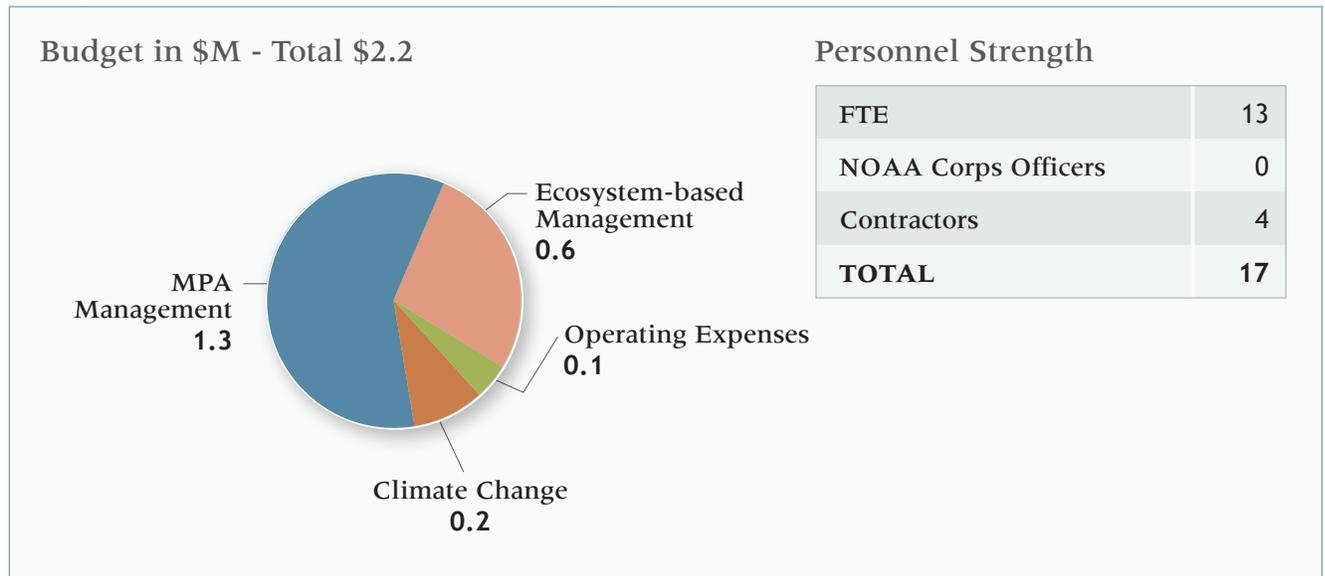
## Program Highlights

- **M&B developed a new and innovative base program structure** that improved analysis and understanding of NOS programs.
- **M&B led preparation of NOS’s strategic plan** and developed a detailed catalog of key performance metrics.
- **M&B instituted a new, highly praised budget allowance structure** that tracks NOS’s budget from appropriation to NOS program office allowances.
- **M&B helps NOS programs transition** into the new Department of Commerce financial management system (CAMS).
- **M&B recently launched a new and innovative main NOS Web site** and a “For NOS Employees” intranet, and produced the yearly Accomplishments Report.
- **M&B works with CSC** to develop the NOS Enterprise GIS project and the National Marine Managed Area inventory.
- **M&B contributes** to coral reef mapping, coastal ocean resource economics, and assessing NOS’s contribution to an integrated ocean observing system.
- **M&B manages and oversees** all NOS information technology activities.
- **M&B spearheaded** the first NOAA-wide Rotational Assignment Program.

# Staff Office for International Programs

Bud Ehler, Director  
Clement Lewsey, Deputy Director

## Budget and Total Personnel Strength



## Program Highlights

- **IPO is leading the development of the Marine Protected Area (MPA) program** for the World Parks Congress, scheduled for September 2003 in Durban, South Africa.
- **IPO is working with international partners** to publish a guidebook of methods to evaluate MPA management effectiveness.
- **IPO is working with the World Heritage Center** to identify tropical marine sites that should be considered for World Heritage designation.
- **IPO is leading the development of an international training methodology** for conducting socio-economic assessments in coastal communities.
- **IPO promotes local conservation efforts** globally through the NOAA Coral Reef Conservation Grant Program, which supported nine projects worldwide in FY2003.
- **IPO is working with the Secretariat of the Caribbean Community (CARICOM)** to address climate change adaptation in the Caribbean.
- **IPO is working with China, Vietnam, Korea, and South Africa** to promote ecosystem-based management and build capacity of existing MPAs within a comprehensive coastal management framework.

# Staff Office for International Projects

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- Management Effectiveness Demonstration Sites
- Major Conferences
- ▨ Bilateral Programs
- International Coral Grant Sites
- ▭ Regional Initiatives